## Monitoring Data Record

Project Title: R-2417BA (Sites 14 and 22) COE Action ID: 2002-2-0899
Stream Name: UT Bull Run DWQ Numbers: 001432
City, County and other Location Information: Lee County, US 421-NC 87 Sanford
Bypass from East of US 1-15-501 to East of SR 1521
Date Construction Completed: Site 14 (May 2003) & Site 22 (April 2004)
Monitoring Quarter: (8) of 8
Ecoregion: 8 digit HUC unit: 03030004
USGS Quad Name and Coordinates:
Rosgen Classification:
Length of Project: 144' Urban or Rural: Rural Watershed Size:
Monitoring DATA collected by: M. Green and J. Young Date: 2/1/08
Applicant Information:
Name: NCDOT Roadside Environmental Unit
Address: 1425 Rock Quarry Rd. Raleigh, NC 27610
Telephone Number: (919) 861-3772 Email address: mlgreen@dot.state.nc.u
Consultant Information:
Name:
Address:
Telephone Number: Email address:
Project Status: Complete
Monitoring Level 1 requires completion of Section 1, Section 2 and Section 3 <b>Permit States:</b> The permittee will visually monitor the vegetative plantings on a mitigation streambanks to access and insure complete stabilization of the mitigatio stream segments. This monitoring will include adequate visual monitoring of plante vegetation quarterly for a minimum of two years after final planting, and appropriat remedial actions (e.g., replanting, streambank grading, ect.). If within any monitorin year, bank stabilization is not acceptable as determined by the Corps of Engineers, an remedial action required by the Corps of Engineers is performed, the two year monitorin of the affected portions of the stream will begin again.
Section 1. PHOTO REFERENCE SITES
Total number of reference photo locations at this site: Site 14: 1 photo point, 2 photos at this photo point location. Site 22: 2 photo points, 2 photos at each photo point location.  Dates reference photos have been taken at this site: 5/1/06, 8/24/06, 11/28/06,
2/7/07, 5/21/07, 8/7/07, 11/2/07, 2/1/08
Individual from whom additional photos can be obtained (name, address, phone):
individual ir one whom diddicional photos can be obtained (name, diddicios, phone).
Other Information relative to site photo reference:

# Attach plan sheet indicating reference photos. Identify specific problem areas (missing, stressed, damaged or dead plantings): Estimated causes, and proposed/required remedial action: ADDITIONAL COMMENTS: Vegetation is dormant at this time. Seedlings noted on the streambank and in the floodplain consisted of black willow, silky dogwood, willow oak, water oak, tulip poplar, alder, white oak, river birch, green ash, and red maple. Other vegetation noted consisted of Juncus sp., cattail, lespedeza, fennel, sedge, pokeweed, jewelweed, goldenrod, woolgrass, briars, and various grasses. NCDOT proposes to discontinue plant survival monitoring.

Section 2. PLANT SURVIVAL

If required to complete Level 1 and Level 2 monitoring <u>only</u> stop here; otherwise, complete section 3.

### Section 3. CHANNEL STABILITY

noted?

**Visual Inspection:** The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. <u>Physical measurements of channel stability/morphology will not be required.</u> Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

Site 14 stream relocation at Sta. 133+90 LT. has a slight headcut where the relocated stream ties back to the existing stream. The stream relocation is stabilized.

Site 22 s	tream re	elocation at Sta. 14	46+00 RT.	has two cr	oss vanes tl	hat were con	structed v	vithout f	filter fabric
per the	plans.	Water is currently	flowing th	nrough the	structures.	There has b	een some	localize	ed erosion
but the si	ite has	stabilized with	vegetation.	NCDOT	proposes to	discontinue	channel s	stability	monitoring
at Sites 1	4 and 2	2.						•	

Date Station Station Station Station Station Inspected Number Number Number Number Number Structure Crossvanes Stream @ Type @ Sta. Sta. 133+90 LT. 146+00 RT. Water is Is water piping piping through or through around crossvanes structure? Slight Head cut or Slight Headcut down cut Headcut present? Bank or scour erosion present? Other problems

**NOTE:** Attach separate narrative sheets to each monitoring report describing/discussing the overall monitoring results. Include the identification of specific problem areas/channel failures, estimated cause and proposed/required remedial action. This should include a brief discussion of any parameter that has changed significantly from asbuilt.

# Site 14





Photo 1 Photo 2

# Site 22







Photo 2



Photo 3



Photo 4